

(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 563 774 B1

(12)

EUROPÄISCHE PATENTSCHRIFT

(45) Veröffentlichungstag und Bekanntmachung des
Hinweises auf die Patenterteilung:
19.05.1999 Patentblatt 1999/20

(51) Int Cl.⁶: **H01H 71/46, H01H 71/68,
H01H 71/10, H01H 71/04**

(21) Anmeldenummer: 93104852.4

(22) Anmeldetag: 24.03.1993

(54) Fernsteuerbarer Schutzschalter

Protective circuit breaker with remote control

Disjoncteur de protection avec commande à distance

(84) Benannte Vertragsstaaten:
BE DE DK ES FR GB GR IE IT LU NL PT

(30) Priorität: 31.03.1992 DE 9204342 U
15.06.1992 DE 9208010 U

(43) Veröffentlichungstag der Anmeldung:
06.10.1993 Patentblatt 1993/40

(73) Patentinhaber: **Ellenberger & Poensgen GmbH**
D-90518 Altdorf (DE)

(72) Erfinder:
• **Peter, Josef**
W-8503 Altdorf (DE)

- **Meckler, Peter**
W-8431 Sengenthal (DE)
- **Krasser, Fritz**
W-8503 Altdorf (DE)
- **Endner, Gerhard**
W-8500 Nürnberg 60 (DE)

(74) Vertreter: **Tergau, Enno, Dipl.-Ing.**
Mögeldorf Hauptstrasse 51
90482 Nürnberg (DE)

(56) Entgegenhaltungen:
EP-A- 0 099 233 DE-C- 302 042
DE-C- 643 205 US-A- 3 211 955
US-A- 3 601 562 US-A- 3 706 100
US-A- 3 863 186 US-E- R E32 882

Anmerkung: Innerhalb von neun Monaten nach der Bekanntmachung des Hinweises auf die Erteilung des europäischen Patents kann jedermann beim Europäischen Patentamt gegen das erteilte europäische Patent Einspruch einlegen. Der Einspruch ist schriftlich einzureichen und zu begründen. Er gilt erst als eingelegt, wenn die Einspruchsgebühr entrichtet worden ist. (Art. 99(1) Europäisches Patentübereinkommen).

EP 0 563 774 B1

DELPHION

Log Out Work Files Saved Searches

RESEARCH

PRODUCTS

INSIDE DELPHION

My Account

No active trail

Select OR

Stop Tracking

Search: Quick/Number Boolean Advanced Derwent Help

The Delphion Integrated View

Get Now: PDF More choices...

Tools: Add to Work File: Create new Work File Add

View: Expand Details Jump to: Top Go to: Derwent

Email this to a friend

Title: EP0563774B1: Protective circuit breaker with remote control[German][French]

Derwent Title: Remotely controlled protection switch e.g. for vehicle on-board supply - has control for ON OFF switching indicating switch position of switch contacts and overcurrent release [Derwent Record]

Country: EP European Patent Office (EPO)

Kind: B1 Patent (See also: EP0563774A2, EP0563774A3)

Inventor: Peter, Josef; Meckler, Peter; Krasser, Fritz; Endner, Gerhard;

Assignee: Ellenberger & Poensgen GmbH News, Profiles, Stocks and More about this company

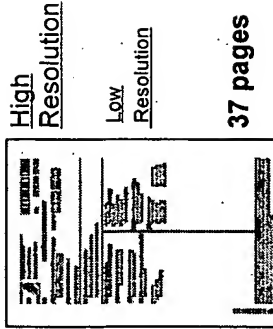
Published / Filed: 1999-05-19 / 1993-03-24

Application Number: EP1993000104852

IPC Code: H01H 71/46; H01H 71/68; H01H 71/10; H01H 71/04;

Priority Number: 1992-03- DE1992000004342U
1992-06- DE1992000008010U

Abstract: [From equivalent EP0563774A2] Protection circuit breaker (1) can be remotely controlled by means of an external remote switch (8), via control electronics (2) and an electromagnetic switching drive (3) which is controlled by said control electronics. The switching drive (3) switches the circuit via a latching mechanism (4) which is latched to it and unlatches and is opened in the event of



overcurrent by bimetallic tripping of the switching drive (3), and in consequence interrupts the circuit. In the event of bimetallic tripping, an auxiliary switch (6) is operated which, via the control electronics (2), causes the remote switch (8) to switch off and the switching drive (3) to latch to the opened latching mechanism (4) again.

Attorney, Agent
or Firm:

INPADOC

Legal Status:

Designated
Country:

Tergau, Enno, Dipl.-Ing.;

Show legal status actions

Get Now: Family Legal Status Report

BE DE DK ES FR GB GR IE IT LU NL PT

Family:

PDF	Publication	Pub. Date	Filed	Title
	US5432491	1995-07-11	1993-03-19	Bimetal controlled circuit breaker
	US5381421	1995-01-10	1993-03-31	Remote controlled overload protective switch
	ES2133339T3	1999-09-16	1993-03-24	INTERRUPTOR DE PROTECCION CON MANDO A
	EP0563775B1	1996-02-07	1993-03-24	Bimetal-controlled protection circuit breaker
	EP0563775A1	1993-10-06	1993-03-24	Bimetal-controlled protection circuit breaker
	EP0563774B1	1999-05-19	1993-03-24	Protective circuit breaker with remote control
	EP0563774A3	1994-11-23	1993-03-24	Protective circuit breaker with remote control
	EP0563774A2	1993-10-06	1993-03-24	Protective circuit breaker with remote control
	DE59309583C0	1999-06-24	1993-03-24	FERNSTEUERBARER SCHUTZSCHALTER
	DE59301570C0	1996-03-21	1993-03-24	BIMETALLGESTEUERTER SCHUTZSCHALTER
	DE9321529U1	1999-04-01	1993-03-24	Fernsteuerbarer Schutzschalter
	DE9208010U1	1993-11-25	1992-06-15	Fernsteuerbarer Schutzschalter
	DE9207762U1	1993-11-18	1992-06-09	Bimetalgesteuerter Schutzschalter
13 family members shown above				

Description
Expand description

Die Erfindung betrifft einen fernsteuerbaren Schutzschalter mit den Merkmalen des Oberbegriffs des Anspruchs 1.
+ Bezugszeichenliste

First Claim:

Show all claims 1. Circuit breaker (1) which can be remotely

controlled by means of an external remote control switch (8) via an electronic control unit (2),

- - having an electromagnetic switching drive (3, 11) which is controlled by the electronic control unit (2) and switches the circuit via a switch latch (4, 12, 13) which can be moved between an open and a closed position, and
- - having an auxiliary switch (6) which is actuated by being triggered by a bimetallic element in the event of overcurrent in order to switch off the remote control switch (8) via the electronic control unit (2),

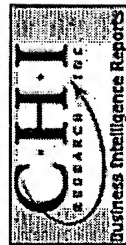
characterized

- - in that the switching drive (3, 11) for switching the circuit is latched to the switch latch (4, 12, 13),
 - - in that the switch latch (4, 12, 13), as a result of being triggered by the bimetallic element, is unlatched from the switching drive (3, 11) and opened and, as a result, interrupts the circuit, and
 - - in that the auxiliary switch (6) which is actuated when triggered by the bimetallic element automatically effects the re-latching of the switching drive (3, 11) to the open switch latch (4, 12, 13) via the electronic control unit.
- [German] [French]

Other Abstract Info: None



THOMSON



Nominate this for the Gallery...

Copyright © 1997-2005 The Thomson Corporation
Subscriptions | Web Seminars | Privacy | Terms & Conditions | Site Map | Contact Us | Help